

CHISTOVICH, L.A.

Perception of the time interval between two short sound impulses.
Akust. zhur. 5 no.4:480-484 '59. (MIRA 14:6)

1. Institut fiziologii imeni I.P.Pavlova.
(Hearing)

CHISTOVICH, L.A.

Perception of sound succession. Biофизика 5 no. 6:671-676 '60.
(MIRA 13:10)

1. Institut fiziologii imeni I.P. Pavlova AN SSSR, Leningrad.
(HEARING)

81374
S/046/60/006/01/12/033
B008/B011

24.1500

AUTHORS: Lyan Chzhi-an', Chistovich, L. A.

TITLE: Differential Frequency Thresholds in Dependence on the Duration of Tone Pulsings

PERIODICAL: Akusticheskiy zhurnal, 1960, Vol. 6, No. 1, pp. 81 - 86

TEXT: The authors investigated the dependence of the differential frequency thresholds on the duration of tones. In the range of short ($t < T_1$), medium ($T_1 < t < T_2$), and long duration ($T_2 < t$), the authors established different dependences (Figs. 2-4). (t - duration of signal; T_1 - first critical duration; T_2 - second critical duration). The change of T_1 and T_2 with a variation in the signal frequency was investigated. *44*
The possible physiological meaning of constants T_1 and T_2 was discussed.
Experiments were conducted on two persons experimented upon (authors), whose auditory power was normal, and who were trained in measuring by ear. The block diagram of the experimental setup is shown in Fig. 1. The values

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Differential Frequency Thresholds in Dependence
on the Duration of Tone Pulsings

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of T_1 , T_2 , and k (k - frequency-dependent constant) are given for three frequencies in Table 1. $kT_1 = \Delta f t$ was found from experimental results with a short duration (Δf - differential threshold). Moreover, the values of the constant T_1 and k were calculated herefrom, as shown in Table 2. The dependence of W (minimum width of the signal spectrum) on the signal frequency was determined (Fig. 5). The following conclusions can be drawn from the investigations carried out: 1) the differential frequency thresholds vary in dependence on the duration of tone pulsings. 2) With a short duration ($t < T_1$) the differential frequency threshold of the prolongation of duration decreases just proportionally. 3) On a medium duration ($T_1 < t < T_2$) there occurs a proportional reduction of the differential frequency threshold of the square root from the prolongation of duration. 4) On a sufficiently long duration ($t > T_2$) the differential frequency threshold becomes constant, regardless of duration. 5) The critical duration T_1 becomes regularly smaller with increasing tone

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on the Duration of Tone Pulsings

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B008/B01

frequency. The critical duration T_2 is more or less the same for all frequencies. 6) It seems unlikely for the T_1 values to be dependent on the band width of the frequency-selective elements of hearing. T_2 represents the time of storage (averaging) of data on the signal by the nerves of the hearing system. There are 5 figures, 2 tables, and 15 references: 2 Soviet, 10 American, 2 English, and 1 Japanese.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova AN SSSR, Leningrad
(Institute of Physiology imeni I. P. Pavlov, AS USSR,
Leningrad)

SUBMITTED: June 2, 1959

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Card 3/3

CHISTOVICH, L.A.; ALYAKRINSKIY, V.V.; ABUL'YAN, V.A.

Time delays in the repetition of audible speech. Vop. psichol.
6 no.1:114-120 Ja-F '60. (MIRA 13:6)

1. Institut fizioligii im. I.P. Pavlova AM SSSR, Leningrad.
(Reproduction (Psychology)) (Reaction time)

CHISTOVICH, L. A.

Classification of speech sounds repeated at a fast rate. Akust.
zhur. 6 no.3:392-398 '60. (MIRA 13:9)

1. Institut fizioligii im. I.P.Pavlova AM SSSR, Leningrad.
(Speech)

CHISTOVICH, L.A.; IVANOVA, V.A.

Critical time for the determination of the loudness of sound.
Fiziologicheskii zhurnal, 46 no.1:20-25 Ja 1960. (MIRA 13:5)

1. Laboratory of physiology of audition analyzer, Academy of
Sciences of U.S.S.R. I.P. Pavlov institute of Physiology,
Leningrad.
(SOUND)

CHISTOVICH, L. A.

"Temporal course of speech sound perception (Experiments with shadowing and letter writing reaction to consonants)"

report submitted for the 4th Intl. Congress of Acoustics,
Copenhagen, Denmark, 21-26 Aug 1962.

Pavlov Inst. of Physiology, Leningrad, USSR.

S/245/62/000/006/003/006
D222/D307

AUTHORS: Chistovich, L. A., Klaas, Yu. A. and Kuz'min, Yu. I.

TITLE: Continuous recognition of speech

PERIODICAL: Voprosy psichologii, no. 6, 1962, 27-39

TEXT: This is a report of experiments on the rapid reproduction and alphabetic transcription of consonants, a continuation of previous work by the senior authors. The purpose of this work was to investigate the articulation dynamics in the running reproduction of consonants, and to find the relationship between reproduction and literal transcription. Nonsense syllables of the vowel-consonant-vowel and consonant-vowel type were read by an experimenter into an intercom system and the articulation movements were recorded by means of a special apparatus developed by Kuz'min and Shuplyakov (Voprosy psichologii, no. 1, 1963). The two subjects tested were required to give a running reproduction or a literal transcription of the syllables, while the same parameters were recorded. It was found that 100 - 150 msec after the transition from

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Continuous recognition of speech

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D222/D307

vowel to consonant in the speech signal the articulation apparatus of the subject takes up a nondifferentiated 'consonant state' which does not coincide with any consonant of the given language. As new information is received this state is progressively modified towards the specific consonant perceived. This supports the view that the articulation during fast reproduction reflects the discrimination processes whereby the running synthesis of the articulation image is achieved. This is contrasted with the view which holds that the process is based on the identification of phonemes. The experiments with literal transcription also show that the selection of letters is not based on the acoustic information as such, but on the final state of the articulatory motor image reached during the running synthesis of the consonant. All this supports the theory that speech sound discrimination is based on the recoding of acoustic information into an articulatory image. There are 11 figures.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova, AN SSSR, Leningrad (Physiological Institute im. I. P. Pavlov, AS USSR, Leningrad)

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S/044/62/000/011/063/064
A060/A000

AUTHOR: Chistovich, L. A.

TITLE: Current speech recognition by man

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1962, 88, abstract 11V498
(In collection: "Mash. perev. i prikl. lingvistika", no. 6, Moscow,
1961, 39 - 79)

TEXT: The paper considers certain general questions in the theory of pattern recognition. It is shown that the selection of useful criteria in the recognition of a set of objects is determined by the characteristics of that set itself. In particular, in the recognition of speech the set of useful criteria is determined by the characteristics of the given language. However, the investigation of the language does not give the possibility of solving the problem as to which elements of a speech pronunciation (phonemes, syllables, or words) are the units of recognition. As we do not know the capability of the human brain, this problem can be solved only experimentally. Conclusions are drawn on the basis of data obtained in experiments with fast repetition of vowels and the

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Current speech recognition by man

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A060/A000

recognition of sound sequences. In speech recognition man carries out the running transformation of the acoustic flow into a sequence of symbols corresponding to articulation solutions of sound. The solutions as to words (phrases) are taken on the basis of these preliminary solutions.

Yu. I. Kuz'min

[Abstracter's note: Complete translation]

Card 2/2

S/044/62/000/006/126/127
E160/B102

AUTHORS: Chistovich, L. A., Klaas, Yu. A., Alekin, R. O.

TITLE: Significance of imitation for recognition of sound sequences

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 85, abstract
6V466 (Vopr. psikhologii, no. 5, 1961, 173-182)

TEXT: One of the stages in the process of recognition of speech by man was studied - the conversion of speech sounds into their articulated forms by imitating sound sequences when recognized. Three-letter sequences were formed by shuffling three vowel sounds (a, e, u) or three tone signals of different frequencies. The amount of information taken in by the subject was estimated by J. Miller and P. Nicely's method. It was experimentally proved that: (1) fast sequences of vowels are recognized considerably better than fast sequences of tones; (2) imitation of tone signals by vowel sounds leads to a considerable improvement in the recognition of these sequences of fast signals; (3) there is a clear relationship between the recognizability of fast sound sequences and the latent period of reaction to the individual elements of these

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S/044/62/000/006/126/127
B160/B102

Significance of imitation for ...

sequences; (4) distinguishing of the signals' order of sequence in time is determined not by the time parameters of the analysing system but by the time characteristics of the process of selecting a reaction corresponding to the input signal. These results allow certain suggestions to be made about a possible logical model of recognition.
[Abstracter's note: Complete translation.]

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35256

S/046/62/008/001/001/018

B139/B102

24.1500

AUTHORS: Alekin, R. O., Klaas, Yu. A., Chistovich, L. A.

TITLE: Reaction delay between hearing and writing down of vowels

PERIODICAL: Akusticheskiy zhurnal, v. 8, no. 1, 1962, 26 - 33

TEXT: To analyze the reaction delay between hearing and writing down of vowels, two test persons wrote down 900 natural vowels each, and 1260 vowels each which were shortened by a relay to 15, 50, and 100 milliseconds, the process of writing being recorded by means of an oscilloscope. To be able to select the corresponding phoneme for each sound in fluent speech, the sounds must not follow each other faster than every 300 - 400 milliseconds; for fluent speech, this time equals 100 - 200 milliseconds. The authors calculated that the average time required for selecting a phonetic symbol was 55 milliseconds. They also ascertained that the reaction time for writing did not depend on the sound duration of the vowel. To determine a systematic correlation between the characteristic properties of a signal and the time required for its identification, histograms of the time required for identifying the individual vowels were studied. The statis-

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S/046/62/008/001/001/018
B139/B102

Reaction delay between hearing ...

tical curves of the reaction delay during writing down show a clear periodicity according to the maxima of sound duration distributed over 85 - 100 milliseconds. The distribution of maxima over the time axis is independent of the type of vowel. The respective amplitude of the maxima and, thus, the mean reaction delay depend, however, on the type of vowel. Shortening of sound leads to smaller amplitudes of the first maxima and larger amplitudes of the subsequent maxima or, indeed, to the occurrence of the latter. This periodicity in the course of reaction delays indicates that a periodic process takes place in the central nervous system, explaining the development of reactions at certain moments; this process must be synchronized with the signal. On the basis of this assumption, the authors conducted tests with an identification model, and determined the reaction delay for the various vowels and the dependence of the delay on the signal properties. There are 7 figures and 18 references: 7 Soviet and 11 non-Soviet. The four most recent references to English-language publications read as follows: E. C. Cherry. Some experiments on the recognition of speech with one and with two ears. J. Acoust. Soc. America, 1953, 25, 5, 975 - 979; M. C. Saslov. Reaction time to consonant-vowel syllables in ensembles of various sizes. Quarterly Report, Laboratory of Electronics, M. I. T., July 1958, 143 - 144; D. E. Broadbent. Time to react. Advanc.

Card 2/3

CHISTOVICH, L.A.; KLAAS, Yu.A.

Analysis of the latent period in the "voluntary" response
to a sound signal. Fizio. zhur. 48 no.8:899-906 Ag'62.

(MIRA 16:6)

1. From the I.P.Pavlov Institute of Physiology, Leningrad.
(SOUND-PHYSIOLOGICAL EFFECT)

ACCESSION NR: AT4037703

S/2865/64/003/000/0324/0334

AUTHOR: Kozhevnikov, V. A.; Chistovich, L. A.

TITLE: Physiological studies of the speech process and their significance in design of speech decoding systems

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy* kosmicheskoy biologii, v. 3, 1964, 324-334

TOPIC TAGS: speech, phonetics, articulation, decoding, speech decoding

ABSTRACT: A phonetic and articulatory analysis of spoken Russian has been conducted to determine the feasibility of systems for the automatic decoding of speech. Sensors were attached to the lips of test subjects and were incorporated into artificial plastic palates which adhered precisely to the subjects' palates. The air flow during articulated speech was measured by means of a mouthpiece attachment fitted tightly over the subjects' mouth. A preliminary statistical analysis of the results showed that it is possible to obtain meaningful data on the elements of articulated speech. Such information could be of considerable value in designing automatic "human speech" systems.

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Card

ACCESSION NR: AT4037703

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NO REF SOV: 002

OTHER: 003

Card

2/2

CHISTOVICH, L.A.; KOZHEVNIKOV, V.A.; ALYAKRINSKIY, V.V.; BONDARKO,
L.V.; GOLUZINA, A.G.; KLAAS, Yu.A.; KUZ'MIN, Yu.I.;
LISENKO, D.M.; LYUBLINSKAYA, V.V.; FEDOROVA, N.A.;
SHUPLYAKOV, V.S.; SHUPLYAKOVA, R.M.

[Speech: Articulation and perception] Artikuliatsiya i
vospriятие. Moskva, Nauka, 1965. 240 p. (MIRA 18:2)

1. Akademiya nauk SSSR. Institut fiziologii im. I.P.Pavlova.

L 14274-66 EWT(d)/EWP(1) IJP(c) BB/GG/RD
ACC NR: AT6003898

SOURCE CODE: UR/2865/65/004/000/0605/0613

AUTHOR: Kozhevnikov, V. A., Chistovich, L. A.

ORG: none

TITLE: Some possible physiological investigations of speech processes in connection with the problems of establishing man-machine communication based on speech

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii,
v. 4, 1965, 605-613

TOPIC TAGS: man machine communication, acoustic signal, acoustic theory,
biosensor, computer calculation

ABSTRACT: Low information transmission capacity and high susceptibility to error are just two of the many disadvantages of conventional man-to-machine information input links based on levers, pushbuttons, and knobs. Creation of a direct man-machine link based on human speech would eliminate these and other limitations of present systems. The first requirement of such a system is development of a device capable of mechanically resolving running speech into its constituent phonemes, which are defined as the smallest distinctive speech units into which a language can be analyzed.

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ACC NR: AT6003898

The most common approach to this problem for the past 10 to 15 years has been to devise equipment for: 1) automatic sequential segmentation of running speech into its component sounds, and 2) comparison of each segment against a stored phoneme dictionary to identify the phoneme it represents. Though attractive in its great simplicity, this approach has not borne fruit, and existing theoretical and phonetic considerations indicate that it is not likely to work. The acoustic signals of speech vary too much from speaker to speaker and even in the speech of a single speaker for reliable matching to be possible.

A new approach, developed in the last 2 or 3 years, is to base resolution not on the acoustic signals of speech themselves but instead on the complex of articulatory movements which go into the production of a speech sound, which in theory can be consistently and reliably deduced from the acoustic signal.

The phoneme (minimal speech unit) thesaurus can then be made up of such complexes of articulatory acts, which are distinctive for each phoneme and more reliably matched, than with the bundles of acoustic features which are the phonemes themselves.

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L 14274-66

ACC NR: AT6003898

Solution of this problem lies in identifying those changes in the parameters of the speech signal which correspond reliably with changes in articulatory parameters. There are at least two ways in which the essential features of the speech signal may be sought: 1) detailed study of the strategy by which a human, hearing a sound, discovers what articulatory movements he must make to imitate it; and 2) statistical (computerized) analysis to isolate the acoustic signs corresponding to a given stance of the articulatory organs and to transitions from one stance to another. The latter line of attack requires synchronous recording of articulatory parameters and speech signals.

Another problem, no less complex is that of the procedure for segmenting the speech continuum into its constituent smallest significant units. As we have seen, these exist in a pure state only on the articulatory level, so must be studied on this level. Basic research is required into the nature of articulatory programs, their organizational principles, and their mechanisms of realization.

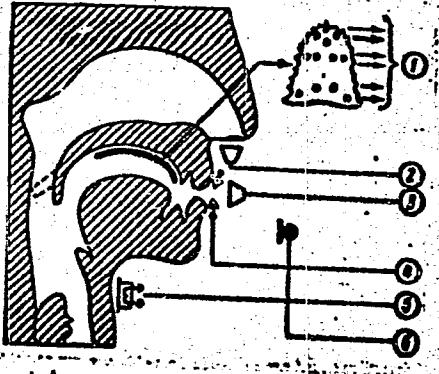
These questions are unstudied to date. Since the 1930's, the phoneticians have given most of their attention to ever more refined recording and analysis of the physical characteristics of the sounds of speech. Investigation of articulatory

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L 14274-66

ACC NR: AT6003898

processes has been almost at a standstill, confined where it did exist to study of the movement of air in the speech tract and the role of the tongue in the formation of vowel sounds. Essential information on closure of the lips and the exact location of changing contact of the tongue with the palate, necessary to understanding of the formation of consonants, can now be obtained by means of the artificial palate illustrated in Fig. 1 (for fuller discussion see "Tongue Movements in Speech Electrically Recorded," Acc. nr. AT6003892).



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Fig. 1 Distribution of basic sensors of articulatory speech parameters

1 - Artificial palate with tongue contact sensors; 2 - sensor for nasal airflow;
3 - sensor for buccal airflow; 4 - lip closure sensor; 5 - laryngophonic sensor;
6 - microphone for acoustic record of speech.

L 7777-66
ACC NR: AP5028041

EWT(d)/EMP(1)

LJP(c)

BB/GG

SOURCE CODE: UR/0046/65/011/004/0417/0426

AUTHOR: Galunov, V.I.; Chistovich, L.A.

ORG: Institute of Physiology im. I.P. Pavlov, AN SSSR, Leningrad (Institut fiziologii
AN SSSR)

TITLE: The relationship between motor theory and the general problem of speech recognition

SOURCE: Akusticheskiy zhurnal, v. 11, no. 4, 1965, 417-426

16c

TOPIC TAGS: motor theory, speech recognition, speech perception, human physiology

ABSTRACT: Lately, speech investigations have been concentrating attention on the so-called motor theory of perception. This theory has both adherents and opponents. There is some experimental data accumulated in favor of the motor theory. Unfortunately, there is still no investigation of the motor theory in the framework of the more general model of speech perception. The present review article attempts to investigate a sufficiently general model of the process of speech perception, and to formulate, on the basis of this model, a motor theory of perception. Experimental data pertaining to the motor theory are presented. Some of the opposing views are given and an attempt is made to determine the practical consequences with respect to further experimental investigation of speech perception flowing out of the motor theory.

SUB CODE: PH, GP, DP / SUBM DATE: 04Mar65 / ORIG REF: 023 / OTH REF: 027

nw
Card 1/1

UDC: 534.78

L 14274-66

ACC NR: AT6003898

These data can either be recorded with a multi-channel pen-writer or input into a computer. Information can be obtained with the artificial palate in binary form and lends itself easily to computer processing. Computer analysis makes it possible to identify meaningful groupings of complex articulatory features, which can then be correlated with groupings of complex phonetic features. Orig. art. has: 2 figures. [ATD PRESS: 4091-F]

SUB CODE: 05, 09, 20 / SUBM DATE: none / ORIG REF: 017 / OTH REF: C13

QC

Card 5/5

CHISTOVICH, N.S.

Gastrectomy in cancer of the stomach combined with phlegmon .
Khirurgiia no.6:87 Je '55.
(MLRA 8:10)

1. Iz kliniki fakul'tetakoy khirurgii Leningradskogo pediatri-
cheskogo meditsinskogo instituta.
(STOMACH--SURGERY)

CHISTOVICH, S. A.

261

Rezhim Rabory Teplovich Setey Neposredstvennym Vodorazborom I Peremennym
Raskhodom Vody. (M). 1954. 20 S.S Chert. 20 SM. (Akad. Kommun. Khozyaystva
Im. K. D. Pameilova. Inform. Pis'mo. 4143. 400 EKZ. Bespl.---Avt. Uказан
Na 2-y S.--(54-14382Zh)

696.11:644.62

SO: Knizhnaya, Letopis, Vol. 1, 1955

CHISTOVICH, S.A., kandidat tekhnicheskikh nauk; DIUSKIN, V.K., redaktor;
SOKOL'SKIY, I.P., redaktor; KONYASHINA, A., tekhnicheskiy redaktor.

[Hydraulic operation of open heating systems with variable water consumption] Gidravlicheskiy reshim otkrytykh teplykh setei s peremennym raskhodom vody. Pod obshchey red. V.K.Diuskina. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 95 p.

(Hot-water heating)

(MLRA 8:11)

Chistovich, S.A.

PORSHINSV, Ivan Nikolayevich; CHISTOVICH, S.A., kand.tekhn.nauk, nauchnyy
red.; KAPLAN, M.Ya., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Automatic condensate return system] Avtomaticheskie kondensato-
otvodchiki. Leningrad, Gos.izd-vo lit-ry po stroit. i arkhit.,
1957. 121 p.
(Steam pipes)

CHISTOVICH, S.

Automatic control in heating systems. Zhil.-kom. khoz. 8 no. 8:28
'58. (MIRA 11:8)
(Thermostat)

~~CHISTOVICH, Sergey Andreyevich, kand.tekhn.nauk; SOLOVEY, Boris Pavlovich,
Inzh.; DYUSKIN, V.K., doktor tekhn.nauk, obshchiy red.; PROTSEMKO,
D.I., red.izd-va; LELYUKHIN, A.A., tekhn.red.~~

[Automatic regulation of the temperature of heated buildings]
~~Avtomaticheskoe regulirovanie temperaturnogo rezhima otspli-
vaemykh pomeshchenii. Pod obshchei red. V.K.Diuskina. Moskva,
Izd-vo M-va kommun.khoz.RSFSR, 1959. 150 p. (MIRA 12:8)
(Heating--Regulators)~~

SOLOVEY, B., inzh.; CHISTOVICH, kand.tekhn.nauk (Leningrad)

Automatic thermostats for apartments. Zhil.-kom.khoz. 9
no.11:21-23 '59. (MIRA 13:2)
(Thermostat)

CHISTOVICH, S.A.

Some problems of the automatic control of heat release according
to the temperature of the outdoor air. Sbor. nauch. rab. AKKH
no.9:170-178 '61. (MIRA 16:1)

(Heating) (Automatic control)

DONDE, Rudol'f Grigor'yevich; RYABKOV, Yevgeniy Nikolayevich;
CHISTOVICH, S.A., nauchnyy red.; DESHALYT, M.G., ved. red.;
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Handbook on fittings and indicating and recording instruments
for gas piping of industrial enterprises] Spravochnik po gazo-
voi armature i kontrol'no-izmeritel'nym priboram dlja pro-
myshlennyykh predpriatii. Leningrad, Gostoptekhizdat, 1962.
363 p. (MIRA 15:11)

(Gas pipes) (Pipe fittings)

GINTZLOVICH, S.A.

Calculation of two pipe system for hot-water heating based
on Alternating drops in temperature. Nauch. trudy AKKH no.
18:142-147 '62. (MIR 17:7)

CHISTOVICH, S.A.

Individual automatic control of the central heating of apartment houses. Nov. tekhn. zhil.-kem. khoz.:Zhil. khoz. no.2:43-61 '63.
(MIRA 18:6)

CHISTOVICH, S.A.

Basic results and problems of research work in the field of
automation of heating boilers. Avtomatiz. otop. kot. no.3:
12-42 '63. (MIRA 16:10)

1. Leningradskiy nauchno-issledovatel'skiy institut Akademii
kommunal'nogo khozyaystva imeni K.D. Pamfilova.
(Automation) (Boilers)

CHISTOVICH, Sergey Androyevich; SHKLYAREVSKAYA, Sof'ya
Yakovlevna; KRYMSKIY, I.L., nauchn. red.; DESHALYT,
M.G., ved. red.

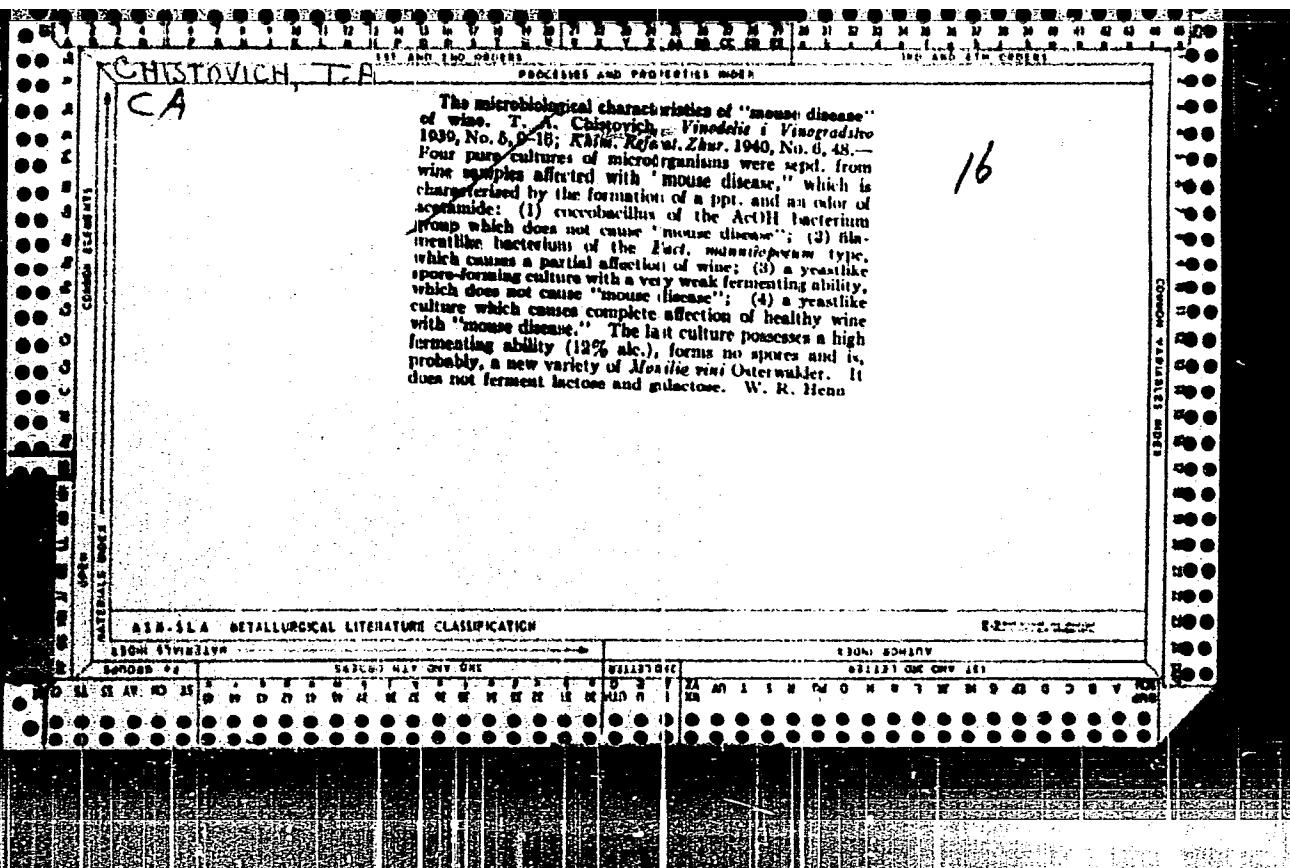
[Installation and operation of gas-operated automated
heating boiler rooms] Montazh i ekspluatatsiya avtomati-
zirovannykh otopitel'nykh kotel'nykh na gaze. Leningrad,
Nedra, 1964. 85 p. (MIRA 17:5)

CHISTOVICH, Sergey Andreyevich; SHISTER, G.M., nauchn. red.;
SUKHAREVA, E.S., red.

[Automating equipment and systems of heat supply and
heating] Avtomatizatsiya ustanovok i sistem teplo-
snabzheniya i otopleniya. Moskva, Stroizdat, 1964.
179 p. (MIRA 18:1)

CHISTOVICH,S.S.

Experience in producing elements cast in one block for
cyclone ash collectors. Lit.proizv. no.6:30 Je '55.
(Founding) (MIRA 8:8)



CHISTOVICH, I.A.

Preventing the formation of crystals during the filtration of champagne. B. A. Filimonov and T. A. Chistovich. (Champagne Winery, Leningrad). VINITI Publ. Vino-gradarstvo S.S.R. 11, No. 5, 53 (1951).—Asbestos-cellulose plates used for the industrial filtration of champagne wines were found to contain Ca, presumably absorbed by the cellulose from the tap water used for the manufg. of the filters. Upon after filtration through such plates a cryst. ppt. was formed in the products consisting mostly of Ca salts of tartaric acid. Washing the plates before use with a dry wine (250-300 l./plate) prevented the formation of the ppt. The wine used for the washing after repeated use was utilized later for the production of inferior-quality wines. E. Wiericki.

CHISTOVICH, T.A.

DRBOGLAV, N.I.; CHISTOVICH, T.A.; KUDRYAVTSEV, V.I., retsenzent;
SAYENKO, M.F., spetsial'nyy redaktor; MASLOVA, Ye.F., redaktor;
GOTLIB, E.M., tekhnicheskiy redaktor.

[Microbiological control of champagne production and the preparation
of yeast starters] Mikrobiologicheskii kontrol' proizvodstva sham-
panskogo i prigotovlenie drozhshevykh razvodok. Moskva, Pishcheprom-
isdat, 1954. 70 p.
(Champagne (Wine)) (Yeast)

(MLRA 7:12)

CHISTOVICH, Z.N.

Reactive processes in pulmonary tissue observed in latent stages
of tuberculosis. Probl.tub. no.2:33-39 Mr-Ap '55. (MIR 8:6)

1. Iz kafedry patologicheskoy anatomi Voyenno-meditsinskoy ordena
Lenina akademii imeni S.M.Kirova.
(TUBERCULOSIS, PULMONARY, pathology,
reactive processes in lungs in latent stages)

CHISTOVICH - TSIMBALINA, G.V., dotsent (Leningrad, K-9, ul. Smirnova,
d.10-a, kv.6)

Pancreatic cyst in children. Vest. khri. 91 no.8:104-107 Ag'63

1. Iz kafedry khirurgii detskogo vozrasta (zav. - prof. G.A.
BAIROV) Leningradskogo pediatricheskogo meditsinskogo institu-
ta (rektor - dotsent Ye.P. Semenova).

SOV/124-58-8-9106

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 113 (USSR)

AUTHORS: Kondrat'yev, A.S., Chistovskaya, N.I.

TITLE: The Vibrations of Loaded Bars (Kolebaniya zagruzhennykh sterzhney)

PERIODICAL: Sb. Nauchn. tr. Kuybyshevsk. industr. in-ta, 1957, Nr 7 (a), pp 9-29

ABSTRACT: An investigation is made of the natural transverse vibrations of rectilinear bars fastened at the ends in a number of different ways. By using the resolvent of the influence function of the bar the authors obtain vibration-frequency equations for bars of constant stiffness subjected to a concentrated mass load. When the primary vibration frequencies arrived at with the aid of exact equations and approximate formulae are compared, it becomes possible to draw inferences concerning the accuracy of the approximate solutions obtained. Two cases are examined: In one, both ends of the bar are simply supported; in the other, one end is clamped and the other end is free. Formulae are adduced for the resolvents in the case of a bar having one end clamped and the other end simply supported and in the case of a bar having

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The Vibrations of Loaded Bars

both ends clamped. These formulae make it possible in either case to evolve the vibration-frequency equations.

S.M. Zavartsev

Card 2/2

CHISTOVSKIY, Oleg Grigor'yevich. Prinimale uchastiye CHISTOVSKAYA, T.M.
SHCHERBINOVSKAYA, T.N., red.; ZORKINA, G.P., mladshiy red.;
GLEYKH, D.A., tekhn.red.

[In the land of great mountains] V strane velikikh gor. Moskva,
Gos.izd-vo geogr.lit-ry, 1959. 195 p. (MIRA 13:9)
(Pamirs--Surveys)

S/194/61/000/010/070/082
D271/D301

AUTHOR: Chistovskiy, B.G.

TITLE: Equipment for measuring signal-to-noise ratio in television transmission

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 19, abstract 10 K136 (Tr. nauchno-tekhn. konferentsii Leningr. elektronotekhn. in-ta svyazi, no. 2, L., 1961, 7-15)

TEXT: Equipment which is described is based on the discrete nature of TV signal spectrum and on the rapid drop of spectral line energy with the increase of frequency. It contains three filters: with a 2 kc/s bandwidth at the frequency of 101.6 kc/s (between the 6th and 7th harmonic of the line frequency), with a bandwidth of 100 kc/s at 1 mc/s and with a bandwidth of 2 mc/s at the frequency of 5 mc/s. Noise passing through these filters is summed up in accordance with the CCIR weighting curve and is compared with

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L 41148-66

ACC NR: AR6014601

SOURCE CODE: UR/0274/65/000/012/A072/A072

AUTHOR: Chistovskiy, B. G.TITLE: Error in a device for automatically measuring the signal-to-noise ratio, caused by a nonuniform distribution of the noise spectral density

SOURCE: Ref. zh. Radiotekhnika i elektronika, Abs. 12A541

REF SOURCE: Tr. Nauchno-tekhn. konferentsii Leningr. elektrotekhn. in-ta svyazi, vyp. 2, 1964, 88-94

TOPIC TAGS: signal to noise ratio, TV camera, TV transmitter, noise analyzer

ABSTRACT: In a TV channel the noise spectral density varies monotonically along the frequency range, the variation law depending on the type of camera tube, on the method and intensity of antinoise correction, and on the frequency characteristics of the channel and communication lines. For a monotone distribution of noise spectral density the integral measurement of the noise in the whole frequency range can be replaced with a certain error by the integral measurement of the noise in several sections of the video signal frequency range. The number of measurement sections in the video signal frequency range is determined by the necessary degree of approximating the measured value of noise to the true value. With the accuracy utilized in practice it is sufficient to measure the noise in three sections of the video signal frequency range. It is necessary to estimate the occurring error for the noise

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UDC: 621.317.346:621.317.743

L 41148-66

ACC NR: AR6014601

spectrum of the camera preamplifiers with simple and complex antinoise correction, for the noise spectrum in the TV channels of radio relay communication lines. A detailed procedure is presented for determining the error according to the noise spectral characteristics for the cases enumerated above. Estimates of the errors in measuring the signal-to-noise ratio are tabulated. The error values are quite permissible for operational measurements. V. S. [Translation of abstract]

SUB CODE: 17,09

Card 2/2 LC

CHISTOVSKIY, O.

The traveler Platon Chikhachev; on the 150th anniversary of his birth. Izv. Vses. geog. ob-va 95 no.5:455-456 S-0 '63.
(MIRA 16:12)

CHISTOVSKIY O.

26263 Nad. vechnymi l'dami (gidrometeorol. stahtsiya kara-kulv pamir ocherk)
vokrug sveta, 1949, No. 8, s. 39-41

SO: LETOPIS' NO. 35, 1949

CHISTOVSKIY, O.

From Iranian impressions. Vokrug sveta no.3:34-37 Mr '54.

(MIRA 7:2)

(Iran--Description and travel)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308910005-5

CHISTOVSKIY, O.

CHISTOVSKIY, O.

Otaika. Vokrug sveta no.6:49 Je '54. (MLRA 7:6)
(Ducks)



APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308910005-5"

PA 249T92

CHISTOVSKIY, O. G.

USSR/Geophysics - Lakes

Oct 52

"The Walled-In Lakes of the Pamirs," O. G. Chistovskiy

Priroda, Vol 41, No 10, pp 83-91

Geog and geol description of the high mountainous Pamirs, bounded by China and Afghanistan; especially of its lakes, Lake Kara-Kul and Lake Sarez. Mentions improvements, by way of roads and other constructions, made in the Pamirs since beginning of Soviet regime. Gives history of Russian geological investigations of the country. States that plans are being made for exploiting the hydroelectric power resources of the Pamirs for the national economy.

249T92

CHISTOWSKIY, Oleg Griger'yevich; SHCHERBAKOV, D.I., akademik, redakter;
KOROTKOVA, V.A., redakter; PROKHODTSEVA, S.Ya., redakter; GLEYKH,
D.A., tekhnicheskiy redakter.

[A topographer's notebook] Zapiski topografa. Otv. red. D.I.
Shcherbakov. Moskva, Gos. izd-vo geogr. lit-ry, 1955. 127 p.

(Soviet Central Asia--Description and travel) (MIRA 9:5)

CHISTOVSKIY, Oleg Grigor'yevich. Prinimale uchastiye CHISTOVSKAYA, T.M.
SHCHERBINOVSKAYA, T.N., red.; ZORKINA, G.P., mladshiy red.;
GLASYKH, D.A., tekhn.red.

[In the land of great mountains] V strane velikikh gor. Moskva,
Gos.izd-vo geogr.lit-ry, 1959. 195 p. (MIRA 13:9)
(Panirs--Surveys)

CHISTOVSKIY, O.G.

City on the Kama River. Priroda 54 no.6:89-95 Je '65.

(MIRA 18:6)

1. Deystv. tel'nyy chlen Geograficheskogo obshchestva SSSR, Leningrad.

CHISTOVSKIY, V.B.

Present status of and trends in designing automatic control
systems for heating industrial boilers and problems of producing
the means of automation. Avtomatiz. ottop. kot. no.3:5-11 '63.
(MIRA 16:10)

1. Gosudarstvennyy proyektnyy institut po promyshlennomu
sanitarno-tehnicheskому proyektirovaniyu Gosstrova SSSR.
(Boilers) (Automation)

GUBINA, A.A.; ZAKGEYM, Ye.N.; ZUSMANOVICH, V.M.; IVANOV, K.N.;
LISITSYN, S.N.; MOZGOV, A.Ya.; PAVLOV, A.S.; PISKORSKIY,
B.N. [deceased]; USHOMIRSKAYA, A.I.; FINKEL'SHTEYN, S.M.;
CHISTOVSKIY, V.B.; SHER, S.Yu.; ADAMOV, O.V., nauchn. red.;
BEYZERMAN, A.N., nauchn. red.; ZHIVOV, M.S., nauchn. red.;
POGORELIY, P.P., nauchn. red.; STAROVEROV, I.G., nauchn. red.;
STESHENKO, A.L., nauchn. red.; TSEYTLIN, M.M., nauchn. red.;
KOKHANENKO, N.A., inzh., red.; VOLNYANSKIY, A.K., glav. red.

[Assembling interior sanitary equipment] Montazh vnutren-
nikh sanitarno-tehnicheskikh ustroistv. Moskva, Stroiizdat,
1964. 725 p. (MIRA 17:8)

CHISTOVONOV, D. B.

USSR/ Chemistry - Chemical technology

Card 1/1 : Pub. 22 - 33/49

Authors : Gusev, V. I., and Chistozvonov, D. B.

Title : Formation of water during the synthesis of methanol from carbon monoxide and H₂O

Periodical : Dok. AN SSSR 98/4, 629-631, Oct. 1, 1954

Abstract : The phenomenon of H₂O formation, which takes place during the synthesis of methanol from CO and H₂(!), is explained. The mechanism of water formation was determined by estimating the methane contents in the gas. The reaction of water formation during the initial stages of methanol synthesis takes place at a much higher rate than the rate of reaction leading to the formation of methyl alcohol. The effect of various catalyst on the H₂O formation is discussed. Table.

Institution : ...

Presented by : Academician S. I. Vol'fkovich, April 16, 1954

CHISTOVONOV, S.

Rotor-type internal-combustion engine. NTO 2 no. 9:57-60 8 '60.
(MIRA 13:9)

1. Glavnnyy knostruktur otdela dvigateley Nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta.
(Gas and oil engines--Technological innovations)

CHISTOVONOV, S. B.

KRZHIVITSKIY, A.A.; CHISTOVONOV, S.B.; BRISKIN, M.I.

[Imported automobiles, 1941-1943 models] Importnye avtomobili
modeli 1941-1943 gg. Pod obshchel red. A.A.Krzhivitskogo.
Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1945.
539 p. (MIRA 9:3)
(Motor-trucks) (Automobiles, Military)

CHISTOZONOV, S.B.

Automobiles - Motors

Comparison of technical and economic characteristics of automobile engines.
Avt. trakt. prom., no. 7, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, NOVEMBER 1952. UNCLASSIFIED.

CHISTOVONOV, S. B.

Automobiles - Motors

Weight of automobile engines. Avt. trakt. prcm. No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910005-5

KALISH, G.G., doktor tekhnicheskikh nauk, (Reviewer)

Automobile engines. Avt.trakt.pron.no.5:6-7 My '53. (MLRA 6:5)

1. Nauchnyy avtomotornyj institut.

(Automobiles--Motors) (Chistozvonov, S.B.)

author of article -

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910005-5"

CHISTOVONOV, S.B.

KULIKOV, N.E., kandidat tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; BRILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISH, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVKER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KHRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., redaktor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOVONOV, S.B., inzhener, redaktor; ZIL'HERBERG, Ya.G., inzhener, redaktor; OVAKOVA, A.F., tekhnicheskiy redaktor.

Wedged freewheeling clutches. Trudy NAMI no.75:3-67 '54.
(MIRA 8:?)

1. Konstruktor Nauchno-issledovatel'skogo avtomotornogo instituta (for Lipgart)
(Clutches (Machinery))

LEVENSTERE, O.L., kandidat tekhnicheskikh nauk; KRESTOVNIKOV, G.A., inzhener; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redakter; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redakter; ZIL'BERBERG, Ya.G., inzhener, redakter; BRILING, N.R., professor, doktor tekhnicheskikh nauk, redakter; KALISH, G.E., doktor tekhnicheskikh nauk, professor, redakter; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redakter; LIPGART, A.A., professor, redakter; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redakter; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redakter; CHISTOZVONOV, S.B., inzhener, redakter; SHTEYNGART, M.D., redakter; UVAROVA, A.P., tekhnicheskiy redakter.

[Heating of brake linings in passenger cars] Nagrev termoznykh nакладок legkoveykh avtomeobilei. Moskva, Ges.nauchno-tekh.izd-vo mashinostreit. lit-ry, 1955. 35 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skiy avtomebil'nyi i avtematernyi institut. Trudy, no.78). (MIRA 9:7)

1. Direktor Nauchno-issledovatel'skogo avtemeternego instituta (for Osipyan). 2. Zamestitel' direktora Nauchno-issledovatel'skogo avtemeternege instituta (for Kozlevskiy). 3. Chlen-korrespondent AN SSSR (for Briling).
(Automobiles--Brakes)

CHISTOVONOV, S.B.

KULIKOV, N.K., doktor tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, Ya.G., inzhener, redaktor; BRILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISH, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, professor, redaktor; LIPGART, A.A., professor, redaktor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOVONOV, S.B., inzhener, redaktor; YEGORKINA, L.I., redaktor; UVAROVA, A.F., tekhnicheskiy redaktor; BROKSH, V.V., inzhener.

[Performance of automobile wheels] Rabota avtomobil'nogo kolesa. (Moscow: Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut. [Trudy] no.77) 1955 36 p. (MLRA 9:4)

1. Chlen-korrespondent AM SSSR (for Briling).
(Automobiles--Wheels)

RUDNITSKIY, N.M., kandidat tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, Ya.G., inzhener, redaktor; BRILING, N.R., doktor tekhnicheskikh nauk, professor, redaktor; KALISH, G.G., doktor tekhnicheskikh nauk, professor, redaktor; PEVZNER, Ya.M., doktor tekhnicheskikh nauk, professor, redaktor; KRUSHCHEV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., professor, redaktor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener; BROKSH, V.V., inzhener, redaktor; BAUMAN, I.M., redaktor; UVAROVA, A.F., tekhnicheskiy redaktor.

[Endurance of materials for automobile engine sliding friction bearings]
Vynoslivost' materialov dlja podshipnikov skol'shenija automobil'nykh dvigatelei. (Moscow. Gosudarstvenni nauchno-issledovatel'skii i avtomobil'-nyi institut. [Trudy], no.76) 1955 54 p. (MIRA 9:4)

1.Direktor Nauchno-issledovatel'skogo avtomotornogo instituta (for Osipyan). 2.Chlen-korrespondent AN SSSR (for Briling).
(Bearings (Machinery)) (Automobiles--Engines)

CHISTOVONOV, S.B.

Compression-ignition automobile engines abroad (to be continued).
Avt. trakt. prom. no. 4:26-31 Ap '55. (MLRA 8:5)
(Automobiles--Ignition)

CHISTOVONOV, S.B.

Foreign diesel automotive engines. Avt. trakt. prom. no. 5:26-31
My 55. (MIRA 8:8)
(Automobile--Engines)

CHISTOVONOV, S.B.

Aluminum-crankcase six-cylinder V engine. Avt. trakt. prom.
no. 7:28-29 J1 55. (MIRA 8:9)
(Italy--Automobiles--Engines)

CHISTOVONOV, S.

Automobile engines with direct injection. Za rul. 14 no. 9:13-
15 D '56. (MIRA 10:3)

1. Glavnnyy konstruktor ot dela dvigateley Nauchno-issledovatel'skogo
avtomobil'nogo instituta. (Automobiles--Engines)

CHISTOZVONOV, S.B.

CHAPKEVICH, V.A., kandidat tekhnicheskikh nauk; OSIPYAN, A.V., kandidat tekhnicheskikh nauk, redaktor; KOZLOVSKIYI.S., kandidat tekhnicheskikh nauk, redaktor; ZIL'BERBERG, V.G., inzhener, redaktor; BRILING, N.R, professor, doktor tekhnicheskikh nauk, redaktor; KALISH, G.G., professor, doktor tekhnicheskikh nauk, redaktor; PEVZNER, Ya.M. professor, doktor tekhnicheskikh nauk, redaktor; KHRUSHCHOV, M.M., doktor tekhnicheskikh nauk, professor, redaktor; RAMAYYA, K.S., doktor tekhnicheskikh nauk, redaktor; LIPGART, A.A., professor, redaktor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk, redaktor; ROZANOV, V.G., kandidat tekhnicheskikh nauk, redaktor; CHISTOZVONOV, S.B., inzhener, redaktor; UVAROVA, A.F., tekhnicheskiy redaktor.

[Investigation of the operation of the IaAZ engine] Issledovanie rabochego protsesa dvigatelya IaAZ. Moskva, Gos.nauchno-tekhn. izd-vo mashino-stroit.lit-ry, 1956. 41 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtemotornyi institut. [Trudy], no.79)

(MIRA 10:3)

1. Direktor Nauchno-issledovatel'skogo avtomobil'nogo instituta (for Osipyan).
2. Zamestitel direktora Nauchno-issledovatel'skogo avtomobil'nogo instituta po nauchnoy rabote (for Koslovskiy).
3. Chlen-korrespondent AM SSSR (for Briling).
(Automobiles--Engines)

CHISTOVONOV, S.B.

RAMAYYA, K.S., doktor tekhnicheskikh nauk; SIL'S, R.Kh., inzhener; BEN-YAKIR, R.D., inzhener; KOZLOVSKIY, I.S., kandidat tekhnicheskikh nauk, zamestitel' otvetstvennogo redaktora; ZIL'BERBERG, YA.G., inzhener, sekretar'; BRILING, N.R., professor, doktor tekhnicheskikh nauk; KALISH, G.G., professor, doktor tekhnicheskikh nauk; PEVZNER, Ya.M., professor, doktor tekhnicheskikh nauk; KHRUSHCHEV, M.M., professor, doktor tekhnicheskikh nauk; LIPGART, A.A.; professor; PRYADILOV, V.I., kandidat tekhnicheskikh nauk; ROZANOV, V.S., kandidat tekhnicheskikh nauk; CHISTOVONOV, S.B., inzhener; BROKSH, V.V., zaveduyushchiy redakteiy, inzhener; UVAROVA, A.F., tekhnicheskiy redaktor; OSIPIAN, A.F., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor.

[Method of determining the potential corrosion properties of lubricants] Metod opredeleniya potentsial'noi korrozionnosti masel. Moskva, Gos.nauchno-tekhnik.izd-vo mashinostroit.lit-ry.1956 49 p.
(Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut. [Trudy], no. 80) (MLRA 10:1)

1. Direktor Nauchno-issledovatel'skogo avtomotornogo instituta (for Osipyan). 2.Zamestitel' direktora Nauchno-issledovatel'skogo avtomotornogo instituta po nauchnoy rabote (for Kozlovskiy).3.Chlen-korrespondent Akademii nauk SSSR (for Briling).
(Lubrication and lubricants) (Corrosion and ant corrosives)

TRAKTOVENKO, I.A., kand. tekhn. nauk; VEDENYAPIN, G.A., otv. red.; KOZLOVSKIY, I.S., kand. tekhn. nauk. red.; ZIL'BERBERG, Ya.G. inzh. zamestitel' otv. red.; BRILING, N.R., doktor tekhn. nauk, prof., red.; KALISH, G.G., doktor tekhn. nauk, prof., red.; FAVZNER, Ya.M., doktor tekhn. nauk, prof., red.; KHRUSHCHEV, M.M., doktor tekhn. nauk, prof., red.; RAMAYYA, K.S., doktor tekhn. nauk, red.; LIPGART, A.A., prof., red.; PRYADILOV, V.I., kand. tekhn. nauk, red.; ROZANOV, V.G., kand. tekhn. nauk, red.; CHISTOZVONOV, S.B., inzh., red.; SHIKIN, S.T., tekhn. red.

[Investigating the effect of the cetane number of diesel fuels on the performance of engines] Issledovanie vliianiia tsetanovogo chisla topliva na rabotu dvigatelya. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1957. 30 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut. [Trudy], no.83). (MIRA 10:12)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta (for Vedenyapin). 2. Zamestitel' direktora po nauchnoy rabote Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta (for Kozlovskiy). 3. Chlen-korrespondent AN SSSR (for Briling).
(Diesel fuel) (Diesel engine)

САМСОУ ВАНДУ С.Б.

SHKOL'NIKOV, E.M., kand.tekhn.nauk; LEVITAN, M.M., inzh.; OSIPYAN, A.V.,
kand.tekhn.nauk, red.; KOZLOVSKIY, I.S., kand.tekhn.nauk, zamestitel'
otvetstvennogo red.; BRILING, N.R., doktor tekhn.nauk, prof., red.;
KALISH, G.G., doktor tekhn.nauk, prof.; LIPGART, A.A., prof., red.;
PEVZNER, Ya.M., doktor tekhn.nauk, prof., red.; PRYADILOV, V.I., kand.
tekhn.nauk, red.; ROZANOV, V.G., kand.tekhn.nauk, red.; KRUSHCHEV, M.M.,
doktor tekhn.nauk, prof., red.; CHISTOZVONOV, S.B., inzh., red.;
ZIL'BERBERG, Ya.G., inzh., red.; TEGORKINA, L.I., red.izd-va;
UVAROVA, A.F., tekhn.red.

[Using chromium-silicon alloys in manufacturing automobile engine
sleeves] Khromokremnistyi splav dlia gil'z avtomobil'nykh dvigatelei.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 78 p.
(Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i
avtomotornyi institut. Trudy no.81)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo
Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo
instituta (for Osipyan). 2. Zamestitel' direktora Gosudarstvennogo
soyuznogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo
avtomobil'nogo i avtomotornogo instituta (for Kozlovskiy). 3. Chlen-
korrespondent AN SSSR (for Briling).

(Chromium-silicon alloys) (Automobiles--Engines--Cylinders)

CHISTOZVONOV, S.B.

VIEHERT, Mikhail Mikhaylovich; DOBROGAYEV, Rostislav Pavlovich; LYAKHOV, Mikhail Ivanovich; PAVLOV, Aleksey Vasil'yevich; SOLOV'YEV, Mikhail Petrovich, professor; STEPANOV, Yury Aleksandrovich; SUVOROV, Viktor Grigor'yevich; KHANIN, N.S., kandidat tekhnicheskikh nauk, retsenzent; CHISTOZVONOV, S.B., retsenzent; NECHAYEV, B.K., doktor tekhnicheskikh nauk, retsenzent; SHUBOVICH, S.I., kandidat tekhnicheskikh nauk, retsenzent; YEGORKINA, L.I., inzhener, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor

[Construction and design of truck and tractor engines] Konstruktsiya i raschet avtotraktornykh dvigatelei. Pod red. IU.A.Stepanova. Moskva, Gos.sauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 604 p. (MIRA 10:10)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut (for Khanin, Chistozvonov). 2. Kafedra dvigateley vnytrennego sgoraniya Tomskogo politekhnicheskogo institute (for Nechayev, Shubovich)

(Motortrucks--Engines) (Tractors--Engines)

Chistozvonov, S.B.
CHISTOVONOV, S.B.

Scientific Automobile and Motorcycle Institute at the 40th
anniversary of the October Revolution. Avt.i trakt.prom.
no.11:9-11 N '57. (MIRA 10:12)

1. Gosudarstvennyy soyuznyy ordena Trudovog Krasnogo Znameni nauchno-
issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Automobile engineering research) (Motorcycle engineering research)

RUDNITSKIY, N.M., kand. tekhn. nauk; VEDENYAPIN, G.A., otv.red.; KOZLOVSKIY, I.S.,
kand.tekhn.nauk, red.; ZIL'BERBERG, Ya.G., inzh. zamestitel' otv.red.
BRILING, M.R., doktor tekhn.nauk, prof., red.; KALISH, G.G., doktor
tekhn.nauk, prof., red.; PEVZNER, YA.M., doktor tekhn.nauk, prof.,
red.; KHRUSHCHEV, M.M.; doktor tekhn.nauk, prof., red. RAMAYVA, K.S.,
doktor tekhn.nauk, red.; LIPGART, A.A., prof., red.; PHYADILOV, V.I.,
kand. tekhn. nauk, red.; ROZANOV, V.G., kand. tekhn nauk, red.;
CHISTOZVONOV, S.B., inzh., red.; AVAKIMOV, G.G., red.izd-va;
SHIKIN, S.T., tekhn. red.

[Investigating the durability of crankshafts in IAZ diesel engines]
Issledovanie vynoslivosti kolenchatykh valov dizelei IaAZ Moskva,
Gos. nauchn.-tekhn. izd-vo mashinostroitel'noi lit-ry, 1957. 30 p.
(Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i
avtomotornyi institut [Trudy], no.8a). (MIRA 11:4)

1. Direktor Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo
Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo
instituta (for Vedenyapin). 2. Zamestitel' direktora po nauchnoy
chasti Gosudarstvennogo soyuznogo ordena Trudovogo Krasnogo Znameni
nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta
(for Kozlovskiy). 3. Chlen-korrespondent AN SSSR (for Briling).
(Cranks and crankshafts) (Diesel engine)

CHISTOVONOV, S.B.

SKOTNIKOV, Viktor Vasil'yevich; VEDENYAPIN, G.A., red.; LIPGART, A.A., otv. red.;
BORISOV, S.G., red.; BRISKIN, M.I., red.; DYBOV, O.V., red.; ZIL'BERG, Ya.
G., red.; KOZLOVSKIY, I.S., red.; LOZAR', A.S., red.; LUNEV, I.S., red.;
PEVZNER, Ya.M., red.; PRYADILOV, V.I., red.; RAMAYYA, K.S., red.;
SAMOL', G.I., red.; SEDOVA, Ye.V., red.; KHANIN, N.S., red.; CHAPAYEV,
A.A. red.; CHISTOVONOV, S.B., red.; SHKOL'NIKOV, E.M., red.;
EGORKINA, L.I., red. izd-va; SMIRNOVA, G.V., tekhn.red.

[Intermediate transformation and temper brittleness of automobile body steels] Promezhutochnoe prevrashchenie i otpusknaia khrupkost' v konstruktsionnykh avtomobil'nykh staliakh. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry 1958. 74 p.
(Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut Trudy, no.85) (MIRA 12:2)
(Steel, Automobile--Metallography)

LIPGART, Andrey Aleksandrovich, prof., red.; DYBOV, Oleg Vladimirovich,;
SAMOL', Grigoriy Ivanovich,; KHANIN, Naum Samoylovich,; CHISTOZYONOV,
Sergey Borisovich,; KVJEL', P.Y., kand. tekhn. nauk, retsenzent,;
KEMMOVICH, A.D., insh., red.; YEGORKINA, L.I., red. izd-va,;
UVAROVA, A.P., tekhn. red.; MODEL', B.I., tekhn. red.

[V-type gasoline automobile engines] Avtomobil'nye benzинovye
V-obraznye dvigateli. Pod obshchei red. A.A. Lipgarta. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 293 p.

(MIRA 11:10)

(Automobiles--Engines)

CHISTOZVONOV, S.B.

KHANIN, N.S., kand. tekhn. nauk; CHISTOZVONOV, S.B., inzh.

Modern diesel engines for automobiles. Vest. mash. 38 no.1:10-15
Ja '58. (MIRA 11:1)

(Diesel engines) (Automobiles--Engines)

LYSYKH, T.S., kand.tehn.nauk; PASHIN, M.A., red.; LIPGART, A.A., red.; AL'-
PEROVICH, A.G., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.;
DYBOV, O.V., red.; ZIL'BEKBERG, Ya.G., red.; LOZAR', A.S., red.;
LUNEV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, N.M., red.;
PRYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.;
SEDOVA, Ye.V., red.; TAMURCHI, O.V., red.; KHANIN, N.S., red.;
CHAPCHAYEV, A.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV, E.N.,
red.; LEZHLEVA, G.V., red.izd-va; SMIRNOV, G.V., tekhn.red.

[Design and investigation of performance of power disk brakes]
Issledovanie raboty diskovykh tormozov s usilniem i metod ikh
rascheta. Moskva, Gos.nauchno-issledovatel'skiy avtomobil'noi i
avtomotornyi institut. Trudy, no.86) (MIRA 12:8)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Automobiles--Brakes)

PETRUSHOV, V.A., inzh.; PASHIN, M.A., red.; LIPGART, A.A., otd.red.;
AL'PEROVICH, A.G., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.;
DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.;
LJUNEV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, Ya.M., red.;
PHYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.;
SEDOVA, Ye.V., red.; TAMRUCHI, O.V., red.; KHANIN, N.S., red.;
CHAFCHAYEV, A.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV,
E.M., red.; YEGORKINA, L.I., red.izd-va; GORELYEVA, L.P., tekhn.
red.

[Operational analysis of the multiplate friction transformer]

Analiz raboty mnogodiskovykh friktsionnykh transformatorov.

Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry,

1960. 79 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii
avtomobil'nyi i avtomotornyi institut [Trudy], no.90).

(MIRA 13:8)

(Motor vehicles--Transmission devices)

CHISTOVONOV, S. B.

Soviet motor-vehicle diesel engines. Za rul. 18 no. 5:12-14
My '60. (MIRA 14:3)

1. Glavnnyy konstruktor otdela dvigateley Nauchno-issledovatel'skogo
avtomobil'nogo i avtomotornogo instituta.
(Diesel engines)

KHANIN, N.S.; CHISTOVONOV, S.B.

Automobile rotary engines. Avt.prom. no.3:12-18 Mr '61.
(MIRA 14:3)
1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Automobiles---Engines)

CHISTOVONOV, S.B.; KHANIN, N.S., kand.tekhn.nauk; YESIPOVICH, R.A.,
nauchnyy red.; VIGDOROVICH, M.B., red.; KOGAN, F.L., tekhn.red.

[Modern foreign motor-vehicle diesel engines; survey] Sovremennye
zarubezhnye avtomobil'nye dizeli; otzov. Moskva, 1963. 171 p.
(Moscow. TSentral'nyi institut nauchno-tehnicheskoi informatsii
po avtomatizatsii i mashinostroeniu. Seriya III: Novye mashiny,
oborudovanie i sredstva avtomatizatsii, no.66). (MIRA 16:12)

KHANIN, N.S.; CHISTOZVONOV, S.B.; AGEYEV, I.K., kand. tekhn. nauk,
retsenzent; YEGORKINA, L.I., inzh., red.; SALAZKOV, N.P.,
tekhn. red.

[Rotating piston engines for motor vehicles] Avtomobil'-
nye rotorno-porshnevye dvigateli. Moskva, Mashgiz, 1964.
(MIRA 17:4)
183 p.

KISELEV, B.A., inzh.; LIPGART, A.A., otv.red.; PASHIN, M.A., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.; ~~BYZGOV~~, N.N., red.; DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.; LUNEV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, Ya.M., red.; PRYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.; SEDOVA, Ye.V., red.; TAMRUCHI, O.V., red.; CHAPKEVICH, V.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV, E.M., red.; SMIRNOVA, G.V., tekhn.red.

[Investigation of the operation and gas-exchange of a loop-scavenged two-cycle motor-vehicle diesel engine] Issledovanie rabochego protsessa i gazoobmena dyukhtaktnogo avtomobilnogo dizelia s petlevoi produvkoi. Moskva, Mashgiz, 1961, 193 p. (Moscow. Gosudarstvennyi-nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut. Trudy, no.30).
(MIRA 16:8)
(Motor vehicles--Engines)

CHISTOZVONOVA, Z. M.

CHISTOZVONOVA, Z. M. -- "The Oxidation of Butyric and Citric Acids by Peroxidases of Plant and Animal Origin and by Oxyhemoglobin." Sub 12 May 52, Moscow Fur and Pelt Inst. (Dissertation for the Degree of Candidate in Biological Sciences).

SO: Vechernaya Moskva January-December 1952

The rate of decom. of butyric and citric acids by peroxides of adrenal cortex and by oxyhemoglobin. Z. M. Chistacova, I. N. Tsydykova, Pushno-Mekh. Inst. 5, 361-6 (1951). Referat. Zhur. Khim., Biol. Khim. 1955, No. 11(60).—It was demonstrated that H_2O_2 is decompd. in a phosphate buffer of pH 7.0 in the presence of butyric acid and citric acid with the simultaneous formation of a slight amt. of acetone. The addn. of an ext. of the liver of rabbits, of the adrenal gland of sheep, of the cortex of the kidney of foxes, of $(NH_4)_2SO_4$ -purified peroxidase of milk, or of cryst. hemoglobin hastened the decompn. of H_2O_2 in the presence of butyric acid without increasing the amt. of acetone produced. Milk peroxidase increased the rate of H_2O_2 decompn. in the presence of citric acid. It is concluded that peroxidase of animal origin in the presence of phenolic compounds acts as a catalyst in the process of oxidation of butyric and citric acids and that milk peroxidase and oxyhemoglobin are not biolum. identities. B. S. Levine

CHISTY, L.

"A great conquest."

So. Radio, Vol. 5, p. 16, 1952

CHISTY, L.

Exhibited by the leading enterprises. Radio no. 7814 Jl '62.
(MIRA 16:6)
(Radio—Equipment and supplies)

USSR/Human and Animal Physiology. Internal Secretion. The Thyroid
Gland. T-8

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55824.

Author : Christynk, V. M.

Inst : University of Uzhgorod.

Title : The Menstrual Function in Women with Goiter.

Orig Pub: Nauchn. zap. Uzhgorodsk. un-ta, 1955, 15, 113-117.

Abstract: In foci of endemic goiter, women suffering from goiter of the I degree were proved to display a delayed onset of menstruation (at the age of 16-20 years) in 28.61 percent of the cases. When goiter of the II degree was present, such a delay was noted in 40.88 percent of the cases, and in cases with a goiter of the III degree, in 38.98 percent. The author contributes the above facts to the influence of goitrous factors,

Card : 1/2

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CHISTYAKOV, A.

"Effectiveness of Planting Germinant Acorns as a Measure of Protection Against
Rodents," Les. khoz., No.1, 1952